

# Discrete & Computational Geometry

Volume 3 1988

## Editors-in-Chief

Jacob E. Goodman  
Richard Pollack

## Editorial Board

Louis J. Billera  
G. D. Chakerian  
H. S. M. Coxeter  
Henry Crapo  
David P. Dobkin  
Herbert Edelsbrunner  
Paul Erdős  
Ronald L. Graham  
Branko Grünbaum  
Leonidas J. Guibas  
John E. Hopcroft  
Masao Iri  
Victor Klee  
Daniel J. Kleitman  
Donald E. Knuth

Peter McMullen  
Franco P. Preparata  
P. Rosenstiehl  
Gian-Carlo Rota  
Bruce L. Rothschild  
Jacob T. Schwartz  
Marjorie Senechal  
N. J. A. Sloane  
Robert E. Tarjan  
William P. Thurston  
Godfried T. Toussaint  
William T. Trotter, Jr.  
Jörg M. Wills  
F. Frances Yao



Springer International

454 ISSN: 0179-5376

The exclusive copyright for all languages and countries, including  
the right for photomechanical and any other reproductions, also  
in microform, is transferred to the publisher.

The use of registered names, trademarks, etc. in this publication  
does not imply, even in the absence of a specific statement, that  
such names are exempt from the relevant protective laws and  
regulations and therefore free for general use.

Printed in Great Britain

© 1988 by Springer-Verlag New York Inc.

## Index to Volume 3

ALT, H.: Congruence, Similarity, and Symmetries of Geometric Objects	237
ALTHÖFER, I.: On Optimal Realizations of Finite Metric Spaces by Graphs	103
AVIS, D.: Polyhedral Line Transversals in Space . . . . .	257
BAJAJ, C.: The Algebraic Degree of Geometric Optimization Problems	177
BAKER, B. S.: Nonobtuse Triangulation of Polygons . . . . .	147
CANNY, J.: Simplified Voronoi Diagrams . . . . .	219
DENEEN, L.: Polygonizations of Point Sets in the Plane . . . . .	77
DONALD, B.: <i>see</i> Canny, J. . . . .	219
DU, D. Z.: <i>see</i> Hwang, F. K. . . . .	367
EWALD, G.: On the Classification of Toric Fano Varieties . . . . .	49
FRANKL, P.: On the Contact Dimension of Graphs . . . . .	89
GROSSE, E.: <i>see</i> Baker, B. S. . . . .	147
HWANG, F. K.: A Decomposition Theorem on Euclidean Steiner Minimal Trees . . . . .	367
KALAI, G.: Many Triangulated Spheres . . . . .	1
KE, Y.: Lower Bounds on Moving a Ladder in Two and Three Dimensions	197
KIRKPATRICK, D. G.: Establishing Order in Planar Subdivisions . . . . .	267
KÜHNEL, W.: Combinatorial $d$ -Tori with a Large Symmetry Group . . . . .	169
LASSMANN, G.: <i>see</i> Kühnel, W. . . . .	169
LAWRENCE, J.: Valuations and Polarity . . . . .	307
LENHART, W.: Computing the Link Center of a Simple Polygon . . . . .	281
MAEHARA, H.: <i>see</i> Frankl, P. . . . .	89
MEGIDDO, N.: On the Complexity of Polyhedral Separability . . . . .	325
MEHLHORN, K.: <i>see</i> Alt, H. . . . .	237
MOHAR, B.: Nonorientable Genus of Nearly Complete Bipartite Graphs	137
MOHAR, B.: Branched Coverings . . . . .	339
MÜLLER, C.: Equidecomposability of Polyhedra with Reference to Crystallographic Groups . . . . .	383
O'ROURKE, J.: <i>see</i> KE, Y. . . . .	197
POLLACK, R.: Separating Two Simple Polygons by a Sequence of Translations . . . . .	123
POLLACK, R.: <i>see</i> Lenhart, W. . . . .	281
PURDY, G.: Repeated Angles in $E_4$ . . . . .	73
RAFFERTY, C. S.: <i>see</i> Baker, B. S. . . . .	147
ROUDNEFF, J.-P.: Arrangements of Lines with a Minimum Number of Triangles Are Simple . . . . .	97
SACK, J.: <i>see</i> Lenhart, W. . . . .	281
SEIDEL, R.: <i>see</i> Lenhart, W. . . . .	281
SENECHAL, M.: Tiling the Torus and Other Space Forms . . . . .	55
SHARIR, M.: <i>see</i> Wiernik, A. . . . .	15
SHARIR, M.: <i>see</i> Pollack, R. . . . .	123
SHARIR, M.: <i>see</i> Lenhart, W. . . . .	281
SHUTE, G.: <i>see</i> Deneen, L. . . . .	77

SIFRONY, S.: <i>see</i> Pollack, R.	123
SONG, G. D.: <i>see</i> Hwang, F. K.	367
SURI, S.: <i>see</i> Lenhart, W.	281
TING, G. Y.: <i>see</i> Hwang, F. K.	367
TOUSSAINT, G.: <i>see</i> Lenhart, W.	281
WAGENER, H.: <i>see</i> Alt, H.	237
WELZL, E.: <i>see</i> Alt, H.	237
WENGER, R.: <i>see</i> Avis, D.	257
WHITESIDES, S.: <i>see</i> Lenhart, W.	281
WIERNIK, A.: Planar Realizations of Nonlinear Davenport-Schinzel Sequences by Segments	15
WILSON, P. R.: <i>see</i> Wiseman, J. A.	295
WISEMAN, J. A.: A Sylvester Theorem for Conic Sections	295
WOOD, D.: The Orthogonal Convex Skull Problem	349
YAP, C.-K.: Guest Editor's Foreword (Special Issue on 3rd ACM Symposium)	193
YAP, C.-K.: <i>see</i> Lenhart, W.	281
YAP, C.-K.: <i>see</i> Wood, D.	349

